A1

wherein R is a C_{12}-C_{22} aliphatic hydrocarbon; R' is an independently selectable from hydrogen or C_1 to C_3 alkyl; A is NH or O, and $1 \leq x+y \leq 3$.

12. (Amended) An invert emulsion fluid having utility for drilling completing, or working over subterranean wells, said fluid comprising:

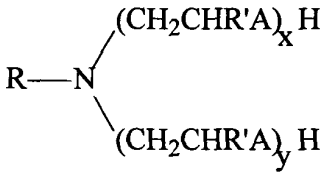
A2

a) an oleaginous liquid, said oleaginous liquid comprising from about 30% to about 99% by volume of said fluid;

b) a non-oleaginous liquid, said non-oleaginous liquid comprising from about 1% to about 70% by volume of said fluid; and

c) an amine surfactant present in said fluid at a concentration of 0.1% to 5.0% by weight of said fluid, said amine surfactant having a structure of:

SUB B4



wherein R is a C_{12}-C_{22} aliphatic hydrocarbon; R' is an independently selectable from hydrogen or C_1 to C_3 alkyl; A is NH or O, and $1 \leq x+y \leq 3$.

Please add the following new claims:

23. In a method of drilling a subterranean well using a drilling fluid, wherein said drilling fluid is an oil-based drilling fluid, the improvement comprising the use of an invert emulsion drilling fluid that is reversible to a regular drilling fluid upon protonation of an amine based emulsifier with an acidic material.

A3